**TASK-3 EVENT MANAGEMENT SYSTEM (using PostgreSQL)**

**1.Database Creation**

**Create a database named "EventsManagement"**

CREATE DATABASE EventsManagement;

**Create tables for Events, Attendees, and Registrations.**

**Events·Event\_ld,Event\_ Name, Event\_Date, Event\_Location,Event\_ Description**

CREATE TABLE Events (

Event\_Id SERIAL PRIMARY KEY,

Event\_Name TEXT,

Event\_Date DATE,

Event\_Location TEXT,

Event\_Description TEXT

);

**Attendees· Attendee\_ld,Attendee\_Name, Attendee\_Phone,Attendee\_Email,Attendee\_City**

CREATE TABLE Attendees (

Attendee\_Id SERIAL PRIMARY KEY,

Attendee\_Name TEXT,

Attendee\_Phone VARCHAR(20),

Attendee\_Email TEXT,

Attendee\_City TEXT

);

**Registrations-Registration\_id, Event\_ld,Attendee\_ld,Registration\_Date,Registration\_Amount.**

**The FOREIGN KEY constraint in the Registrations table references the Event\_ld column in the**

**Events table and the Attendee\_ld column in the Attendees table**

CREATE TABLE Registrations (

Registration\_Id SERIAL PRIMARY KEY,

Event\_Id INT,

Attendee\_Id INT,

Registration\_Date DATE,

Registration\_Amount NUMERIC,

FOREIGN KEY (Event\_Id) REFERENCES Events (Event\_Id),

FOREIGN KEY (Attendee\_Id) REFERENCES Attendees (Attendee\_Id)

);

**2.Data Creation**

**Insert some sample data for Events, Attendees, and Registrations tables with respective fields.**

INSERT INTO Events (Event\_Id, Event\_Name, Event\_Date, Event\_Location, Event\_Description)

VALUES

(1, 'Conference', '2023-07-10', 'New York', 'Annual tech conference'),

(2, 'Workshop', '2023-08-15', 'San Francisco', 'Introduction to Data Science'),

(3, 'Seminar', '2023-09-20', 'London', 'Marketing trends in the digital era');

INSERT INTO Attendees (Attendee\_Id, Attendee\_Name, Attendee\_Phone, Attendee\_Email, Attendee\_City)

VALUES

(1, 'John Smith', '123456789', 'john@example.com', 'New York'),

(2, 'Jane Doe', '987654321', 'jane@example.com', 'San Francisco'),

(3, 'Mike Johnson', '789456123', 'mike@example.com', 'London');

INSERT INTO Registrations (Registration\_Id, Event\_Id, Attendee\_Id, Registration\_Date, Registration\_Amount)

VALUES

(1, 1, 1, '2023-07-05', 50.00),

(2, 1, 2, '2023-07-06', 50.00),

(3, 2, 1, '2023-07-07', 75.00),

(4, 3, 3, '2023-07-08', 0.00);

**3. Manage Event Details**

**a) Inserting a new event**

INSERT INTO Events (Event\_Id, Event\_Name, Event\_Date, Event\_Location, Event\_Description)

VALUES (4,'Seminar', '2023-10-25', 'Tokyo', 'Latest trends in artificial intelligence');

**b) Updating an event's information**

UPDATE Events

SET Event\_Name = 'Conference 2023',

Event\_Date = '2023-11-15',

Event\_Location = 'Paris',

Event\_Description = 'International tech conference'

WHERE Event\_Id = 1;

**c) Deleting an event.**

DELETE FROM Events

WHERE Event\_Id = 4;

**4) Manage Track Attendees & Handle Events**

**a) lnserting a new attendee.**

INSERT INTO Attendees (Attendee\_Id,Attendee\_Name, Attendee\_Phone, Attendee\_Email, Attendee\_City)

VALUES (4,'Alice Johnson', '9876543210', 'alice@example.com', 'New York');

**b) Registering an attendee for an event.**

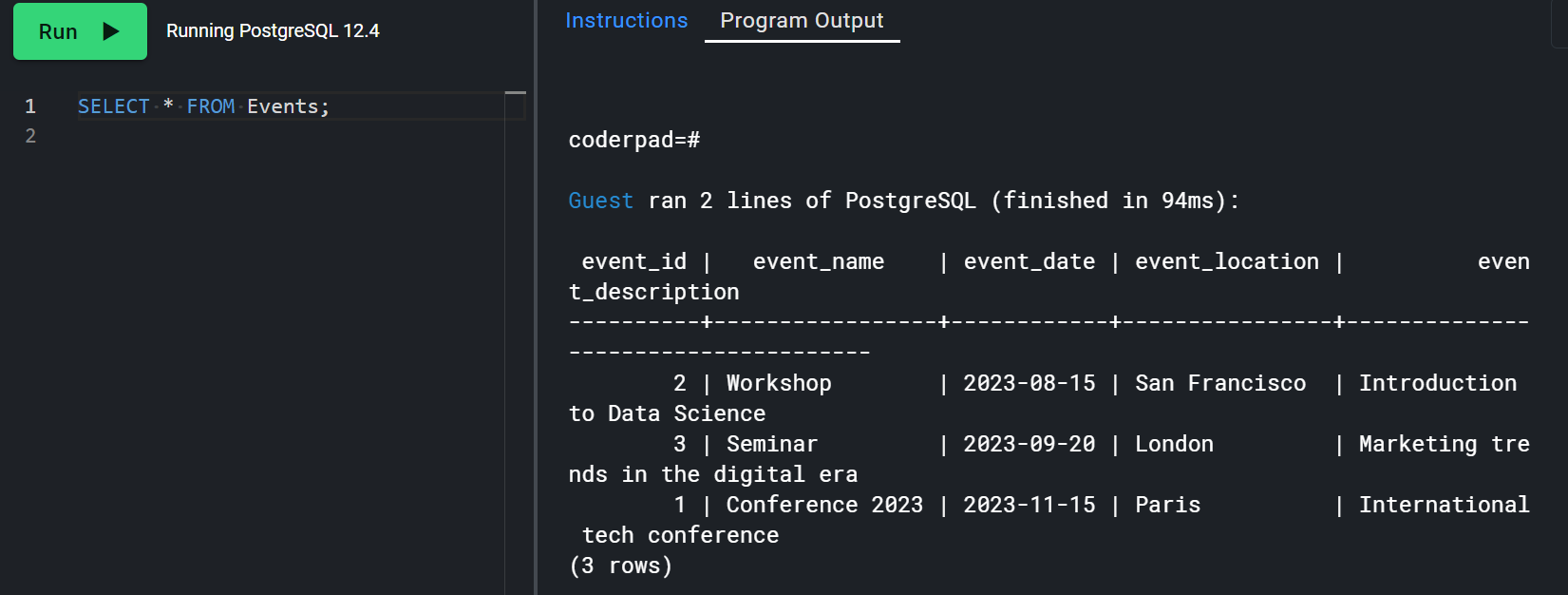
INSERT INTO Registrations (Registration\_Id ,Event\_Id, Attendee\_Id, Registration\_Date, Registration\_Amount)

VALUES (5,1, 1, '2023-07-05', 50.00);

**5 .Develop queries to retrieve event information, generate attendee lists, and calculate event attendance statistics**

Query to Retrieve Event Information:

SELECT \* FROM Events;



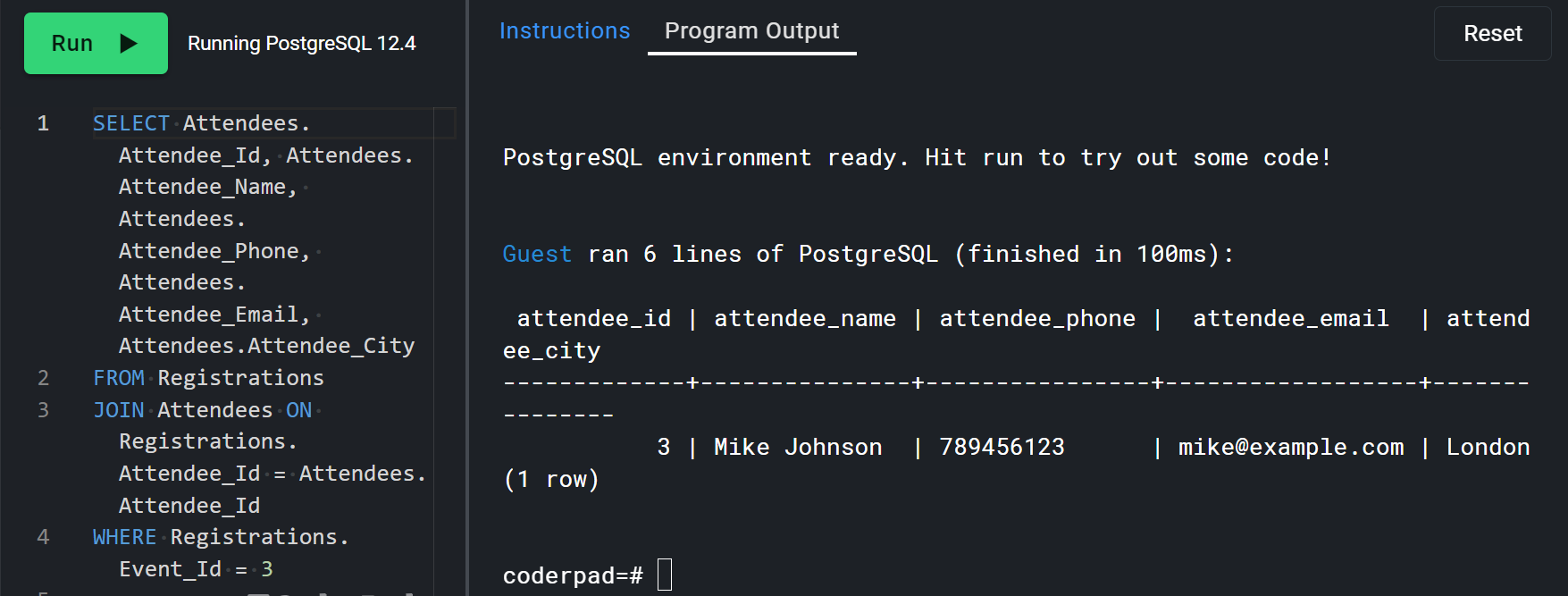
**Query to Generate Attendee List for an Event:**

SELECT Attendees.Attendee\_Id, Attendees.Attendee\_Name, Attendees.Attendee\_Phone, Attendees.Attendee\_Email, Attendees.Attendee\_City

FROM Registrations

JOIN Attendees ON Registrations.Attendee\_Id = Attendees.Attendee\_Id

WHERE Registrations.Event\_Id = 3



**Query to Calculate Event Attendance Statistics:**

SELECT COUNT(\*) AS Total\_Attendees, AVG(Registration\_Amount) AS Average\_Amount

FROM Registrations

WHERE Event\_Id = 1;

